

Accepted Manuscript

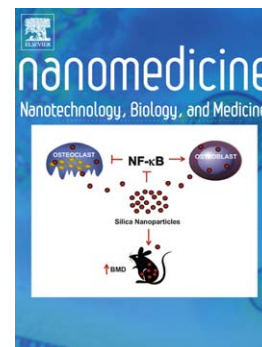
Activation of multiple signaling pathways during the differentiation of mesenchymal stem cells cultured in silicon nanowire microenvironment

Dandan Liu, Changqing Yi PhD, Chi-Chun Fong PhD, Qinghui Jin PhD, Zuankai Wang PhD, Wai-Kin Yu, Dong Sun PhD, Jianlong Zhao PhD, Mengsu Yang PhD

PII: S1549-9634(14)00037-9
DOI: doi: [10.1016/j.nano.2014.02.003](https://doi.org/10.1016/j.nano.2014.02.003)
Reference: NANO 894

To appear in: *Nanomedicine: Nanotechnology, Biology and Medicine*

Received date: 21 September 2013
Revised date: 31 January 2014
Accepted date: 13 February 2014



Please cite this article as: Liu Dandan, Yi Changqing, Fong Chi-Chun, Jin Qinghui, Wang Zuankai, Yu Wai-Kin, Sun Dong, Zhao Jianlong, Yang Mengsu, Activation of multiple signaling pathways during the differentiation of mesenchymal stem cells cultured in silicon nanowire microenvironment, *Nanomedicine: Nanotechnology, Biology and Medicine* (2014), doi: [10.1016/j.nano.2014.02.003](https://doi.org/10.1016/j.nano.2014.02.003)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Activation of Multiple Signaling Pathways during the Differentiation of Mesenchymal Stem Cells Cultured in Silicon Nanowire Microenvironment

Dandan Liu ^{a,b}, Changqing Yi, PhD ^{a,b}, Chi-Chun Fong, PhD ^{a,b}, Qinghui Jin, PhD ^c, Zuankai Wang, PhD ^d, Wai-Kin Yu ^{a,b}, Dong Sun, PhD ^d, Jianlong Zhao, PhD ^c, Mengsu Yang, PhD ^{a,b,*}

a Key Laboratory of Biochip Technology, Biotech and Health Centre, Shenzhen Research Institute of City University of Hong Kong, Shenzhen, China;

b Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, China;

c State Key Laboratories of Transducer Technology & Science and Technology on Micro-system Laboratory, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, Shanghai, China;

d Department of Mechanical and Biomedical Engineering, City University of Hong Kong, Hong Kong, China;

*Corresponding author: Mengsu Yang

*Address: Department of Biology and Chemistry, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong; Tel: (852) 3442-7797; Fax: (852) 3442-0552

* Email: bhmyang@cityu.edu.hk

No conflict of interest declared.

Funding: This work was supported by the General Research Fund of Hong Kong Research Grant Council (CityU-104411). National Basic Research Program of China (973. 2012CB933302), and the Key Laboratory Funding Scheme of Shenzhen Municipal Government, China.

Download English Version:

<https://daneshyari.com/en/article/10436102>

Download Persian Version:

<https://daneshyari.com/article/10436102>

[Daneshyari.com](https://daneshyari.com)